Title (en)
SIMILARITY DETECTION DEVICE AND DIRECTIONAL NEAREST NEIGHBOR METHOD

Title (de)
ÄHNLICHKEITSERKENNUNGSVORRICHTUNG UND VERFAHREN ZUR GERICHTETEN SUCHE DES NÄCHSTEN NACHBARN

Title (fr)
DISPOSITIF DE DÉTECTION DE SIMILARITÉ ET PROCÉDÉ DU PLUS PROCHE VOISIN DIRECTIONNEL

Publication
EP 2765520 A4 20160427 (EN)

Application
EP 12838222 A 20121003

Priority
• JP 2011219547 A 20111003
• JP 2012075673 W 20121003

Abstract (en)
[origin: EP2765520A1] In order to detect similar data from a great deal of data at high speed, a similarity detecting apparatus includes a random number generating unit 3 which calculates random number data based on a parameter list, a table managing unit 5 which calculates a plurality of key calculation functions based on the random number data, calculates a plurality of tables based on input data, and calculates a candidate data list based on a query shown by a search condition, and a data processing unit 6 which calculates search result data from the candidacy data list to satisfy the condition shown a search condition. Each table is calculated for a value corresponding to a key to show a data list of data in which the data substituted into a key calculation function is equal to the key. A candidate data list contains a plurality of search data list and a search data list corresponding to the table shows the value corresponding to a query value obtained by substituting the query into the key calculation function.

IPC 8 full level
G06F 17/30 (2006.01); **G06V 10/70** (2022.01); **G06V 10/766** (2022.01); G06V 10/764 (2022.01)

CPC (source: EP US)
G06F 16/24575 (2018.12 - US); **G06F 16/285** (2018.12 - US); **G06F 16/583** (2018.12 - EP US); **G06F 18/22** (2023.01 - US);
G06F 18/24147 (2023.01 - US); **G06V 10/70** (2022.01 - EP US); **G06V 10/766** (2022.01 - EP US); G06F 18/241 (2023.01 - US);
G06V 10/764 (2022.01 - EP US); G06V 10/7715 (2022.01 - EP US)

Citation (search report)
• [A] US 2006153457 A1 20060713 - NAKAMURA AKIRA [JP], et al
• [A] US 2004139067 A1 20040715 - HOULE MICHAEL EDWARD [JP]
• [XI] ERALDO PEREIRA MARINHO ET AL: "Anisotropic k-Nearest Neighbor Search Using Covariance Quadtree", ARXIV.ORG, CORNELL UNIVERSITY LIBRARY, 201 OLIN LIBRARY CORNELL UNIVERSITY ITHACA, NY 14853, 31 August 2011 (2011-08-31), XP080523910
• See references of WO 2013051619A1

Designated contracting state (EPC)
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SG 11201401213U A 20140828; US 2014324870 A1 20141030; US 9530081 B2 20161227; WO 2013051619 A1 20130411

DOCDB simple family (application)
EP 12838222 A 20121003; JP 2012075673 W 20121003; JP 2013537536 A 20121003; SG 11201401213U A 20121003;
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